Matter No.: 16887-002001
Applicant(s): Rehberg et al.
RULE SELECTION ENGINE
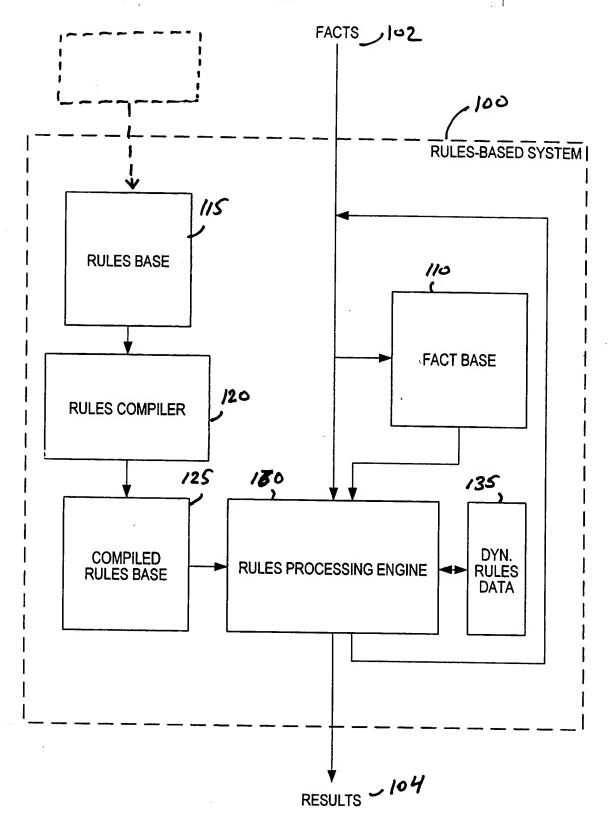
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FACTS *102*

100

RULES-BASED SYSTEM

RULES BASE *115*

RULES COMPILER *120*

COMPILED RULES BASE *125*

FACT BASE *110*

RULES PROCESSING ENGINE *130*

DYN. RULES DATA *135*

RESULTS *104*

FIG.1

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FIG. 2

Matter No.: 16887-002001
Applicant(s): Rehberg et al.
RULE SELECTION ENGINE

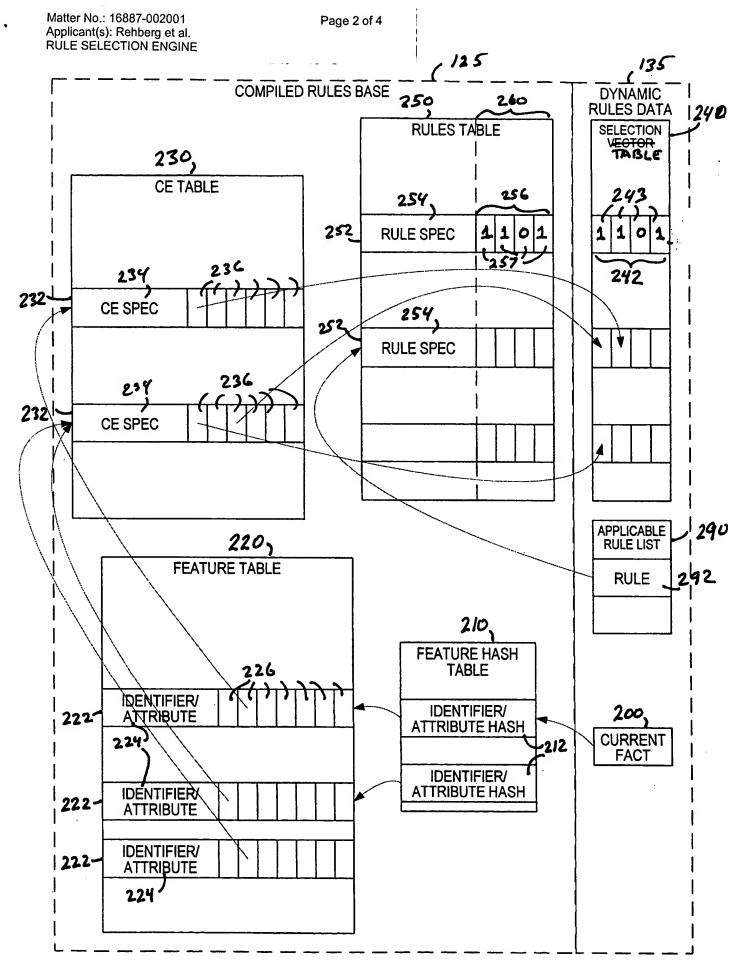Page 3 of 4

COMPILE RULES BASE
FORMING COMPILED
RULES BASE AND
INITIALIZED RULES DATA — 310

PROCESS EXTERNAL
FACTS TO DETERMINE
APPLICABLE RULES LIST — 320

RULES LIST EMPTY? — 330 — YES → DONE

NO

APPLY RULE FROM
APPLICABLE RULES LIST — 340

FACT(S) ADDED? — 350

NO

YES

PROCESS ADDED FACT(S)
TO ADD RULES TO
APPLICABLE RULES LIST — 360

FIG. 3

Matter No.: 16887-002001
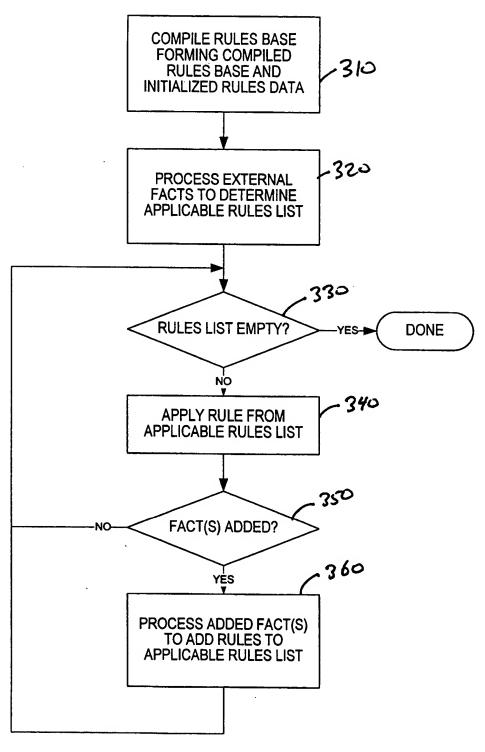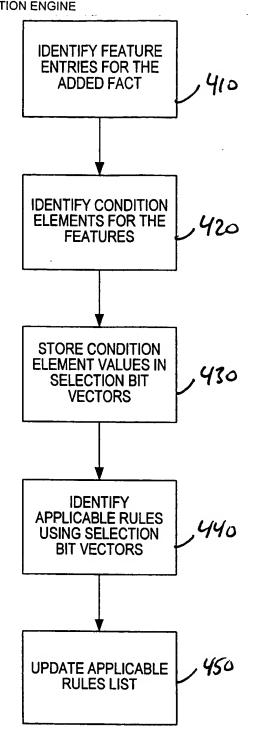Applicant(s): Rehberg et al.
RULE SELECTION ENGINE

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IDENTIFY FEATURE
ENTRIES FOR THE
ADDED FACT
410

IDENTIFY CONDITION
ELEMENTS FOR THE
FEATURES
420

STORE CONDITION
ELEMENT VALUES IN
SELECTION BIT
VECTORS
430

IDENTIFY
APPLICABLE RULES
USING SELECTION
BIT VECTORS
440

UPDATE APPLICABLE
RULES LIST
450

FIG. 4